UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,546	12/02/2005	Brian Douglas Smith	P-356.36 (PCT) (US)	2962
30544 JACKSON WA	7590 05/27/201 LKER, L.L.P.	0	EXAMINER	
112 E. PECAN,	, SUITÉ 2400	MONIKANG, GEORGE C		
SAN ANTONIO, TX 78205			ART UNIT	PAPER NUMBER
			2614	
			NOTIFICATION DATE	DELIVERY MODE
			05/27/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dmunsch@jw.com cvelie@jw.com

	Application No.	Applicant(s)			
	10/559,546	SMITH ET AL.			
Office Action Summary	Examiner	Art Unit			
	GEORGE MONIKANG	2614			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>01 Ap</u>	nril 2010				
• • • • • • • • • • • • • • • • • • • •	action is non-final.				
	-				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>35-39</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>35-39</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
•		(4) - 11 (5)			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_				
1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa				
Paper No(s)/Mail Date 6) Other:					

Application/Control Number: 10/559,546 Page 2

Art Unit: 2614

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 4/1/2010; with respect to the rejection(s) of claim(s) 35-39 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Mark, US Patent 5812684.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 35, 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark, US Patent 5812684, in view of Official Notice.

Application/Control Number: 10/559,546

Art Unit: 2614

Re Claim 35, Mark discloses a noise control device for a glass window, comprising an audio frequency sensor attachable to a face pane surface of said window interior of outer edge of said window (abstract: sensors are located on window glass of vehicle), an encoder interface adapted to receive signals from said audio frequency sensor (col. 2, lines 1-7), said encoder interface including processing means for detecting in a received signal a predetermined characteristic of noise external to said building (col. 2, lines 1-7: sensor senses external noise that causes vibration on the side glass of the vehicle), for generating a cancellation signal and for supplying said cancellation signal to an audio frequency actuator directly attached to the face pane surface of the glass of the window (abstract; col. 2, lines 1-7: sensor senses external noise that causes vibration on the side glass of the vehicle and actuators generates a reverse phase of the vibration signal in other to reduce vibrations and subsequently the external noise transmitted into the vehicle compartment) and adapted to couple said signal into the glass in the plane of said face pane surface to cause the glass to radiate the acoustic antiphase signal into the building to reduce the perceived intensity of the external noise in the building (abstract; col. 2, lines 1-7: sensor senses external noise that causes vibration on the side glass of the vehicle and actuators located on the glass generates a reverse phase of the vibration signal in other to reduce vibrations and subsequently the external noise transmitted into the vehicle compartment). Though the Mark reference does not explicitly disclose that the noise control device is used for a building, since he does not limit his noise cancellation system to be used in a vehicle only, it would have been obvious that the noise cancellation system could have been

Page 3

used in other noisy environment such as a building for the same desirable purpose of reducing surrounding noises.

Re Claim 38, the combined teachings of Mark and Official Notice disclose a noise control device according to claim 35, wherein the predetermined characteristic is indicative of the noise of an airplane flying over said building (*col. 1, lines 41-55: system* is designed to reduce any noise outside the window).

Re Claim 39, the combined teachings of Mark and Official Notice disclose a noise control device according to claim 35, wherein the predetermined characteristic is indicative of traffic noise (*col. 1, lines 41-55: system is designed to reduce any noise outside the window*).

1. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mark, US Patent 5812684 and Official Notice as applied to claim 35 above, in view of Pelrine et al, US Patent 6343129 B1.

Re Claim 36, the combined teachings of Mark and Official Notice disclose a noise control device according to Claim 35, but fail to disclose wherein the microphone and the acoustic actuator are combined into a single device as taught in Pelrine et al (<u>Pelrine et al, col. 4, lines 59-63</u>). It would have been obvious to use the microphone acoustic detector of Pelrine et al (<u>Pelrine et al, col. 4, lines 59-63</u>) with the noise control device of Mark for the purpose of making the system more compact.

2. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mark, US Patent 5812684, Official Notice and Pelrine et al, US Patent 6343129 B1, as applied to claim 36 above, in view of Wan, US Patent 5,978,489.

Re Claim 37, the combined teachings of Mark, Official Notice and Pelrine et al disclose the noise control device according to claim 36, but fail to disclose wherein said single device is a magnetostrictive actuator as taught in Wan (*Wan, col. 2, lines 41-45*). It would have been obvious to use the magnetostrictive actuator of Wan (*Wan, col. 2, lines 41-45*) with the noise control device of Mark, Official Notice and Pelrine et al for the purpose of changing the actuators shape when they are subjected to a magnetic field.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE MONIKANG whose telephone number is (571)270-1190. The examiner can normally be reached on 9:00-5:00 EST Monday-Friday, Alt Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian C. Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/559,546

Art Unit: 2614

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GEORGE MONIKANG/ Examiner, Art Unit 2614 5/13/2010

Page 6

/Vivian Chin/

Supervisory Patent Examiner, Art Unit 2614